

ENGLISH TRANSLATION OF THE INTERNATIONAL APPLICATION
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Claims

1. Setting device, especially motor vehicle parking brake,
 - with a setting unit (10) featuring a remotely-operated drive (8),
 - with a telescopic device (2: 3) movable axially in a housing (1) or similar in a longitudinal axis of the setting unit, containing a hollow shaft (2) and a spindle shaft (3) connected to it in a manner that enables it to rotate and advance and actuate a brake cable (4),
 - with a non-rotating axially movable connection between the remotely-operated drive (8) and the hollow shaft (2),
 - with an axial advancing support between the hollow shaft (2) on the one side and the housing (8) on the other side via at least one elastic element (5 or 6) stationary relative to the spindle shaft (3) and the brake cable (4) and arranged in parallel in the direction of hollow shaft (2) loaded axially by the advancing support and thereby axially deformable.
2. Setting device in accordance with claim 2,
 - with an electric motor for the remotely-operated drive (1).
3. Setting device in accordance with claim 1 and/or 2,
 - with a transmission (8.2; 11; 2.1) between the remotely-operated drive (8) and the hollow shaft (2).
4. Setting drive in accordance with claim 3,
 - with an intermediate gear wheel (11) between a drive gear element (8.2) of the remotely-operated drive (8) and a drive gear wheel (2.1) of the hollow shaft (2);

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- with an axial movement option between the intermediate gear wheel (11) and the meshing drive gear wheel (2.1) of the hollow shaft (2) at least to the extent of the operational stroke distance (a1 or a2) of the at least one elastic element (5 or 6).
5. Setting device in accordance with at least one of the claims 1 to 4,
- with the at least one elastic element (5 or 6) being used as a correspondingly axially moved force sensor emitter (2.2) for its longitudinal deformation for the axial advancing force acting from the motorized drive (8) via the hollow shaft (2) on the spindle shaft (3).
6. Setting device in accordance with claim 5,
- with a force sensor receiver (7.1) stationary relative to the spindle shaft (3) and the brake cable (3) assigned to the force sensor emitter (2.2); especially in the form of a Hall chip assigned to the magnetic force sensor emitter (2.2).
7. Setting device in accordance with claim 6,
- with an arrangement of the force sensor receiver (2.2) as an integrated part of a control unit (7.2; 7.3) of the setting unit (10), especially accommodated by a fixed circuit board (7).
8. Setting device in accordance with claim 7,
- with the control unit (7.2; 7.3) being arranged in the area of the telescopic device (2; 3).

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9. Setting device in accordance with at least one of the claims 1 to 8
- with the at least one elastic element (5 or 6) being embodied as a spring screw.
10. Setting device in accordance with claim 9,
- with the at least one elastic element (5 or 6) being arranged or embodied as a spring screw surrounding the hollow shaft (2) concentric to the hollow shaft (2) or the spindle shaft (3) especially in its opposite direction of rotational advance.
11. Setting device in accordance with at least one of the claims 1 to 10,
- with the at least one elastic element (5 or 6) being embodied as a compression spring element.
12. Setting device in accordance with at least one of the claims 1 to 10,
- with at least one elastic element (5 or 6) being embodied as a tension spring element.
13. Setting device in accordance with one of the claims 5 to 12,
- with the at least one elastic element (5 or 6) being used as a force sensor emitter (2.2) for determining the brake application force of a motor vehicle parking brake.
14. Setting device in accordance with one of the claims 5 to 12,

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- with the at least one elastic element (5 or 6) being used as a force sensor emitter (2.2) for determining the brake release force of a motor vehicle parking brake.
15. Setting device in accordance with at least one of the claims 1 to 14,
- with first elastic element (5) loaded axially by advancing support for an axial advancing movement of the telescopic device (2; 3), especially on application of a motor vehicle parking brake;
 - with a second elastic element (6) loaded axially in the other axial direction of movement of the telescopic device (2: 3) by advancing support, especially on release of a motor vehicle parking brake.
16. Setting device in accordance with claim 15,
- with a different elasticity constant of the first elastic element by comparison with the elasticity constant of the second elastic element (6).
17. Setting device in accordance with claim 15 and/or 16,
- with a loading of the second elastic element (6) after previous unloading of the first elastic element (5).
18. Setting device in accordance with at least one of the claims 15 to 17,
- with a zero point detection between the transition of the unloading of the first elastic element (5) on the one hand and the loading of the second elastic element (6) on the other hand.

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19. Setting device in accordance with at least one of the claims 15 to 18,

- with an arrangement of the second elastic element (6) axially before or after the first elastic element (5).

20. Setting device in accordance with at least one of the claims 1 to 19

- with a concentric arrangement in relation to each other of the first elastic element (5) and of the second elastic element (6).

21. Setting device in accordance with claim 1

- with an embodiment of the at least one elastic element (5 or 6) as pressure compression element, especially with different compression spring constants by comparison with the tension spring element constant.

22. Setting device, especially motor vehicle parking brake,

- with a drive unit (10) featuring a remotely-operated drive (8),
- with a telescopic device (2: 3) movable axially in a housing (1) or similar in a longitudinal axis of the setting unit, containing a hollow shaft (2) and a spindle shaft connected to it in a manner that enables it to rotate and advance and actuate a brake cable (4),
- with a non-rotating axially advancable connection between the remotely-operated drive (1) and the hollow shaft (2),
- with an axially advancing support between the hollow shaft (2) on the one side and the housing (1) on the other side via at least elastic element (5 or 6) stationary relative to the spindle shaft (3) and the brake cable (3) during a

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drive into the release position of the brake of an axially loaded and thereby axially longitudinally deformable elastic element (5 or 6).

23. Setting device in accordance with claim 22,
- with the features of at least of one of the claims 2 to 12.